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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/792,115	03/02/2004	Phillip M. Sher	A1WI2176US	3931
23935 7590 11/26/2007 KOPPEL, PATRICK & HEYBL 555 ST. CHARLES DRIVE SUITE 107 THOUSAND OAKS, CA 91360			EXAMINER	
			BURD, KEVIN MICHAEL	
			ART UNIT	PAPER NUMBER
	,		2611	
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			MAIL DATE	DELIVERY MODE
			11/26/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

•	Application No.	Applicant(s)			
	10/792,115	SHER ET AL.			
Office Action Summary	Examiner	Art Unit			
	Kevin M. Burd	2611			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period was prepared to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on <u>21 Or</u> 2a)□ This action is FINAL . 2b)⊠ This 3)□ Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
 4) Claim(s) 1-56 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) 18-33 is/are allowed. 6) Claim(s) 1-4,8-12,34-38,42-45 and 54 is/are regarded. 7) Claim(s) 5-7,13-17,39-41,46-53,55 and 56 is/a 8) Claim(s) are subject to restriction and/or 	wn from consideration. jected. re objected to.				
Application Papers		•			
9)☐ The specification is objected to by the Examine 10)☑ The drawing(s) filed on <u>02 March 2004</u> is/are: a Applicant may not request that any objection to the o Replacement drawing sheet(s) including the correcti 11)☐ The oath or declaration is objected to by the Ex	a) accepted or b) objected to objected to objected to objected to objected to objected. See ion is required if the drawing(s) is objected to object of the object of	e 37 CFR 1.85(a). sected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte			

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 1. Claims 1-4, 8-12, 34-38, 42-45 and 54 are rejected under 35 U.S.C. 102(e) as being anticipated by Fague et al (US 2004/0146122).

The applied reference has a common assignee and a number of common inventors with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

Regarding claims 1, 3, 4, 8, 12, 42 and 43, Fague discloses the radio frequency receiver shown in figure 1. The receiver comprises an analog gain control section for controlling the gain of a received RF signal. The programmable gain amplifiers 23 are controlled by the RSSI circuit 24 (paragraph 0024). The RSSI circuit 24 will recognize the presence of a data packet within the RF signal. This packet will be output from the

filter 22 and the RSSI circuit will ensure a constant signal is input to the AGC 26. The RSSI control loop comprises the "analog GO circuit". The receiver comprises a digital demodulator 32 for demodulating the output of the gain control section. The receiver comprises a preamble detect circuit 36 that recognizes the presence of a data packet within the received RF signal. The digital demodulator is shown in figure 2. The preamble detect circuit will enable components of the FO determination section 59 of figure 3 (paragraph 0032). The preamble detect circuit 36 is the "digital GO circuit". Control circuitry will be found in the RSSI control loop and the preamble detect circuits to enable the circuitry to function properly.

Regarding claim 2, the control circuitry enables the digital demodulator to output the proper compensated signal as described above.

Regarding claims 9, 44 and 45, the preamble is detected and is distinguished from the interference present in the signal. When no co-channel interference is present in the signal, the preamble is not distinguished from the co-channel interference.

Regarding claim 10, the preamble detect circuit 36 receives a FIR filtered signal (figure 1).

Regarding claim 11, the analog gain control section comprises the AGC 23, RSSI 24, ADC 26 and down-converter 28 as well as additional components shown in figure 1.

Regarding claims 34, 36 and 37, Fague discloses the radio frequency receiver shown in figure 1. The receiver comprises an analog gain control section for controlling the gain of a received RF signal. The programmable gain amplifiers 23 are controlled by the RSSI circuit 24 (paragraph 0024). The RSSI circuit 24 will recognize the presence

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of a data packet within the RF signal. This packet will be output from the filter 22 and the RSSI circuit will ensure a constant signal is input to the AGC 26. The receiver comprises a digital demodulator 32 for demodulating the output of the gain control section. The demodulator section receives I and Q signals from the downconverter 28. These signals will contain different delays. The receiver comprises a preamble detect circuit 36 that recognizes the presence of a data packet within the received RF signal. The digital demodulator is shown in figure 2. The preamble detect circuit will enable components of the FO determination section 59 of figure 3 (paragraph 0032).

Regarding claim 35, The FIR filters are shown in figure 1.

Regarding claim 38, Fague discloses the radio frequency receiver shown in figure 1. The receiver comprises an analog gain control section for controlling the gain of a received RF signal. The programmable gain amplifiers 23 are controlled by the RSSI circuit 24 (paragraph 0024). The RSSI circuit 24 will recognize the presence of a data packet within the RF signal. This packet will be output from the filter 22 and the RSSI circuit will ensure a constant signal is input to the AGC 26. The receiver comprises a digital demodulator 32 for demodulating the output of the gain control section. The receiver comprises a preamble detect circuit 36 that recognizes the presence of a data packet within the received RF signal. The digital demodulator is shown in figure 2. The preamble detect circuit will enable components of the FO determination section 59 of figure 3 (paragraph 0032). The sample rate is five times the symbol frequency (paragraph 0032). A symbol timing recover (STR) circuit 38 identifies samples of the preamble of the packet and synchronizes the received signal with the

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STR circuit's output (paragraph 0028). The logic state detect block 40 detects the remainder of the data packet (paragraph 0029).

Regarding claim 54, Fague further discloses the sample rate is five times the symbol frequency (paragraph 0032). A symbol timing recover (STR) circuit 38 identifies samples of the preamble of the packet and synchronizes the received signal with the STR circuit's output (paragraph 0028). The logic state detect block 40 detects the remainder of the data packet (paragraph 0029).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin M. Burd whose telephone number is (571) 272-3008. The examiner can normally be reached on Monday - Friday 9 am - 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David C. Payne can be reached on (571) 272-3024. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Kevin M. Burd 11/17/2007

KEVIN BURD
PRIMARY EXAMINER